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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

JULY, 1929

READ CAREFULLY BEFORE ORDERING

☞ **Send no remittances to the U. S. Department of Agriculture.**

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

☞ **Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.**

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and arm home.

Cottontail rabbits in relation to trees and farm crops. By D. E. Lantz, late assistant biologist, Bureau of Biological Survey. Pp. 14, figs. 4. May, 1929. (Farmers' Bulletin 702–F., Revised.) Price, 5¢.

When cottontail rabbits become objectionable because of their injuries to orchards and farm crops, control measures become necessary. This bulletin describes in detail the different methods of control.

Hemorrhagic septicemia "shipping fever" of cattle. By Henry J. Washburn, bacteriologist, Bureau of Animal Industry. Pp. 6. June, 1929. (Farmers' Bulletin 1018–F., Revised.) Price, 5¢.

Hemorrhagic septicemia is an infectious disease, attended with a very high mortality, which attacks various species of animals, especially cattle and sheep. This publication describes symptoms, methods of diagnosis, prevention and treatment of the disease, and gives directions for disinfection of the premises.

Production of late or main-crop potatoes. By William Stuart, senior horticulturist, Bureau of Plant Industry. Pp. 34, figs. 22. March, 1929. (Farmers' Bulletin 1064–F., Revised.) Price, 10¢.

This bulletin describes the essentials for the production of a maximum crop of potatoes, and is primarily intended for the potato growers of the northeastern United States.

Care and management of farm work horses. By J. O. Williams, senior animal husbandman, and Earl B. Krantz, animal husbandman, Bureau of Animal Industry. Pp. 8, figs. 15. April, 1929. (Farmers' Bulletin 1419–F., Revised.) Price, 5¢.

The proper management of farm work horses means that they must be so maintained as to be more serviceable, more profitable, and longer lived than the average horse. This publication discusses the factors involved, such as stabling, wintering, feed, grooming, and the use of proper harness.

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Propagation of trees and shrubs. By Guy E. Yerkes, horticulturist, Bureau of Plant Industry. Pp. 52, figs. 39. April, 1929. (Farmers' Bulletin 1567–F.) Price, 10¢.

This bulletin is designed for readers who desire practical details concerning the propagation of the deciduous tree fruits and a number of the trees and shrubs used for the adornment of home surroundings. Methods of caring for tree seeds, the culture of seedlings, the successive steps in handling cuttings, layers, grafts, and buds are described.

Feed-lot and ranch equipment for beef cattle. By W. H. Black, senior animal husbandman, and V. V. Parr, animal husbandman. Pp. 22, figs. 30. April, 1929. (Farmers' Bulletin 1584–F.) Price, 5¢.

Practical equipment which is more or less essential in the successful handling of beef cattle on the range and in the feed lot is discussed in this bulletin and illustrated by drawings and photographs. Details concerning silos, barns, and concrete work which have previously been presented in other publications are not included, but reference is made to the publications containing such details.

The southern pine beetle: A serious enemy of pines in the South. By R. A. St. George, associate entomologist, and J. A. Beal, assistant entomologist, Bureau of Entomology. Pp. 18, figs. 17. May, 1929. (Farmers' Bulletin 1586–F.) Price, 5¢.

The periodic widespread devastations of the southern pine beetle have been responsible for the destruction of more merchantable pine timber in the Southern States than has any other agency. This bulletin describes the insect and its work, its life and habits, and the methods that have been employed to prevent and suppress outbreaks.

Beef production on the farm. By W. H. Black, senior animal husbandman, and E. W. McComas, associate animal husbandman, Bureau of Animal Industry. Pp. 14, figs. 9. May, 1929. (Farmers' Bulletin 1592–F.) Price, 5¢.

This is a practical report covering development of beef cattle in the United States, breeding stock, feeding and management, salt requirements, feeding cattle for market, sanitation, disease prevention, etc.

The bollworm or corn ear worm as a cotton pest. By F. C. Bishopp, principal entomologist, Bureau of Entomology. Pp. 14, figs. 12. June, 1929. (Farmers' Bulletin 1595–F.) Price, 5¢.

A popular account of the bollworm as a pest of cotton and suggestions as to how it may be controlled. The insect is described; its habits are outlined; and control by means of fall plowing and other eultural practices and the use of poisons and trap crops is discussed.

Cattle grubs or heel flies with suggestions for their control. By F. C. Bishopp, principal entomologist, E. W. Laake, associate entomologist, and R. W. Wells, associate entomologist, Bureau of Entomology. Pp. 22, figs. 19. June, 1929. (Farmers' Bulletin 1596–F.) Price, 5¢.

A popular account of an important pest of all classes of cattle in the United States; the biology, seasonal history, and habits of the insects are briefly described, the various types of injury outlined, and methods of control suggested. This bulletin is of interest to cattle owners, butchers, hide dealers, tanners, and leather manufacturers.

Dehorning, castrating, branding, and marking beef cattle. By W. H. Black, senior animal husbandman, and V. V. Parr, animal husbandman, Bureau of Animal Industry. Pp. 12, figs. 11. May, 1929. (Farmers' Bulletin 1600–F.) Price, 5¢.

This bulletin is intended primarily for beef-cattle producers. When properly performed, the operations described cause a considerable increase in the quantity and quality of the beef supply and also improvement in the quality of the leather produced. Practically all the information which the farmer and cattleman need in connection with the four operations is given.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to not more than eight pages.

Planting southern pine. By Philip C. Wakeley, assistant silviculturist, Forest Service. Pp. 8, figs. 4. April, 1929. (Leaflet 32–L.) Price, 5¢.

By plantingit to trees, much of the farm land of the South that is unfit for cultivation can be changed from a liability to an asset. All the southern pines grow rapidly, and at an early age yield pulp wood, saw logs, and other valuable products. The methods of planting pine that have proved most successful in the South are described in this leaflet.

Maintaining the health of livestock in transit. By A. W. Miller, Chief, Packers and Stockyards Division, Bureau of Animal Industry. Pp. 8, figs. 8. May, 1929. (Leaflet 38–L.) Price, 5¢.

Although in recent years much improvement has been made in equipment used for shipping livestock and in safe and humane handling of them, great losses occur. This publication gives recommendations for preventing shipping fever and other ailments which occur among livestock in transit. The leaflet is intended principally for livestock shippers, but it contains information of interest also to veterinarians, railway officials, market agencies, and others engaged in handling livestock. Among the recommendations are specific directions for feeding, watering, and caring for livestock before, during, and after shipment.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Distribution of the classes and varieties of wheat in the United States. By J. Allen Clark, senior agronomist, John H. Martin, associate agronomist, Karl S. Quisenberry associate agronomist, John R. Hooker, scientific aid, C. E. Leighty, principal agronomist, and Chester N. Dubois, formerly junior calculator, Bureau of Plant Industry. Pp. 68, figs. 92. May, 1929. (Department Bulletin 1498–D.) Price, 20¢.

A semitechnical bulletin for agronomists, county agents, millers, and grain dealers, showing the distribution and acreage of the classes and varieties of wheat grown in the United States. The importance of each variety in each State in 1919 and 1924 is shown by tables of total and percentage acreages. The distribution of the more important varieties is indicated by dotted maps. The changes occurring in the popularity of different varieties are shown.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Life history of the codling moth in northern Georgia. By E. R. Van Leeuwen, associate entomologist, Bureau of Entomology. Pp. 95, figs. 21. June, 1929. (Technical Bulletin 90–T.) Price, 20¢.

Presents the results of a 2-year study of the life history and habits of the codling moth in one of the most southerly of the commercial apple regions of the United States. The report is one of a series of similar reports on this insect from various apple districts representing widely different climatic conditions.

Dairy work at the Huntley Field Station, Huntley, Mont., 1918–1927. By T. W. Moseley, associate dairy husbandman, Duncan Stuart, associate dairy husbandman, and R. R. Graves, principal specialist in dairy cattle breeding, Bureau of Dairy Industry. Pp. 48, figs. 14. June, 1929. (Technical Bulletin 116–T.) Price, 15¢.

This gives results of experiments conducted at the Huntley station, which are of special interest to dairy farmers in irrigated regions and also of interest to dairy farmers in all parts of the United States. There are data on pastures, feeding, weight variations, and breeding.

Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. By William Stuart, senior horticulturist, P. M. Lombard, associate horticulturist, and Walter M. Peacock, associate horticulturist, Bureau of Plant Industry. Pp. 18, figs. 7. May, 1929. (Technical Bulletin 117–T.) Price, 5¢.

This publication is primarily written for those technically interested in the storage of potatoes. A review of the previous investigations is given. The potatoes were stored in the Aroostook farm potato-storage house, Presque Isle, Me., Marble Laboratory, Canton, Pa., and in the cold-storage plant at the Arlington Experiment Farm, Rosslyn, Va. The tests were made at the Virginia Truck Experiment Station, Norfolk, Va., the Arlington Experiment Farm, and the Aroostook farm.

Relation of husk covering to smut of corn ears. By C. H. Kyle, senior agronomist, Bureau of Plant Industry. Pp. 8, pls. 2. May, 1929. (Technical Bulletin 120–T.) Price, 5¢.

A technical presentation of data showing the positive relation between well-developed husk coverings and freedom from smut on ears of corn. The data were obtained in 1926 at the Arlington Experiment Farm, Rosslyn, Va.

Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. By J. F. Walker, consulting specialist, Bureau of Agricultural Economics. Pp. 94, figs. 37. June, 1929. (Technical Bulletin 124–T.) Price, 25¢.

The bulletin discusses production conditions in various countries and the adaptation of the industry to local conditions. Considerable attention is given to efforts in sheep breeding to obtain higher yield and better quality of wool. Cooperative marketing of wool is making progress in all of these countries.

Relative costs of extension methods which influence changes in farm and home practices. By H. J. Baker, Director of Extension, New Jersey, and M. C. Wilson, in charge Extension Studies, Office of Cooperative Extension Work. Pp. 31, figs. 12. June, 1929. (Technical Bulletin 125–T.) Price, 10¢.

This study interprets the results ascribed to various extension methods in terms of their relative costs. Standards are thus set up which may guide extension administrators and supervisors in budgeting funds and planning work, and extension agents and subject-matter specialists in directing and making efficient their own efforts.

Decay of slash of northern white pine in southern New England. By Perley Spaulding, senior pathologist, Bureau of Plant Industry. Pp. 20, figs. 3. July, 1929. (Technical Bulletin 132–T.) Price, 5¢.

This bulletin presents the results of preliminary investigations. The center of operations was the Harvard Forest, Petersham, Mass., because of abundance of material in that vicinity. It is believed that sufficient data have been taken to permit the drawing of tentative conclusions, which may be of value in future cuttings of this species.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Home demonstration work under the Smith-Lever Act, 1914–1924. By Florence E. Ward, principal agriculturist, in charge Eastern States, Office of Cooperative Extension Work. Pp. 36, figs. 14. June, 1929. (Circular 43–C.) Price, 10¢.

This review of the first 10-year period of organized home demonstration work under the Smith-Lever Act shows that the movement has not only been extraordinary in its growth from the standpoint of numbers employed and funds expended, but that it has developed on broad and practical lines affecting all individual and family life and community relationships.

The utilization of browse forage as summer range for cattle in southwestern Utah. By C. L. Forsling, Director, Great Basin Experiment Station, and Earl V. Storm, forest ranger, Forest Service. Pp. 30, figs. 7, pls. 6. May, 1929. (Circular 62–C.) Price, 10¢.

To prepetuate the better browse plants, grazing should be so managed that 10 to 20 per cent of each year's growth will be left at the end of the season. This publication is intended primarily for cattlemen.

Work of the Huntley Field Station, Montana, in 1925 and 1926. By Dan Hansen, associate agronomist and superintendent, A. E. Seamans, associate agronomist, and David A. Savage, formerly junior agronomist, Bureau of Plant Industry. Pp. 36, figs. 5. July, 1929. (Circular 70–C.) Price, 10¢.

This report presents the results of investigational work with field crops and livestock at the Huntley Field Station in 1925 and 1926 and gives a summary of the more important experiments conducted at this station since it was established in 1910. The investigational work includes experiments with both irrigated and dry-land field crops, and feeding, breeding, and management experiments with dairy cattle and hogs.

The cold storage of eggs and poultry. By Thomas W. Heitz, associate marketing specialist, Bureau of Agricultural Economics. Pp. 55, figs. 25. June, 1929. (Circular 73–C.) Price, 15¢.

This circular discusses the subject in such a way that the layman can get general information regarding the construction of warehouses, temperatures and humidities, and the preparation of goods before going into storage and in coming out of storage.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closes with No. 110 and is replaced by the Miscellaneous Publications series.

Ramie, a fiber-yielding plant. By Lyster H. Dewey, senior botanist, Bureau of Plant Industry. Pp. 12, figs. 4. May, 1929. (Miscellaneous Circular 110–M.) Price, 5¢.

This is a brief popular paper designed to answer questions about the plant and its fiber and the possibility of cultivating ramie in this country. Ramie fiber is now produced commercially only in China and Japan. The fiber is remarkably strong and has other exceptional qualities, but it is not readily spun on machinery designed for other fibers and there is no established market for it in the United States.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Directory of field activities of the Plant Quarantine and Control Administration. Pp. 50, map. April, 1929. (Miscellaneous Publication 47–M.) Price, 10¢.

This directory gives a list of the administrative leaders in Washington and in the field and a brief statement of the work of the administration. The list of field stations is arranged alphabetically by States, and gives for each the location, the name of the man in charge, and a brief statement of the work conducted at the station.

The Food, Drug, and Insecticide Administration of the Department of Agriculture. Pp. 20, figs. 4. June, 1929. (Miscellaneous Publication 48–M.) Price, 10¢.

This publication outlines the organization and work of the Food, Drug, and Insecticide Administration which enforces six laws that are designed primarily to promote purity in and truthful labeling of foods, drugs, insecticides, caustic poisons, and naval stores. It was prepared to answer the many inquiries received as to the procedure under the six acts.

Directory of field activities of the Bureau of Biological Survey. Pp. 38, fig. 1. June, 1929. (Miscellaneous Publication 49–M.) Price, 10¢.

This directory is issued primarily for the use of the various offices of the Bureau of Biological Survey and of department employees and persons having regular official business with the bureau.

How to find economic facts and apply them as a basis for extension programs in home economics, dairying, and forestry. By Florence E. Ward, principal agriculturist in charge, Eastern States, Office of Cooperative Extension Work. Pp. 10. July, 1929. (Miscellaneous Publication 52–M.) Price, 5¢.

This publication is of particular interest to State directors of extension, State leaders of home demonstration work, and the extension specialists in home economics, forestry, and dairying. The procedure described in this publication was suggested at an extension conference last February.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for May, concerning the work of the Bureau of Animal Industry. Pp. 43–51. June, 1929. (Service and Regulatory Announcement, Bureau of Animal Industry, No. 265.) Price, 5¢.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration.

N. J., F. D. 15901–15950; pp. 463–492. May, 1929.
N. J., F. D. 15951–16000; pp. 493–520. June, 1929.
N. J., F. D. 16001–16050; pp. 1–21. July, 1929.
N. J., F. D. 16051–16100; pp. 23–45. July, 1929.
N. J., F. D. 16101–16125; pp. 47–60. July, 1929.
N. J., F. D. 16126–16150; pp. 61–74. July, 1929.

Adulteration and misbranding of seed of redtop, 1928. Pp. 2. July, 1929. (Service and Regulatory Announcement, Bureau of Plant Industry, No. 15.)

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists.

Soil survey of Adams County, Nebraska. By F. A. Hayes, of the U. S. Department of Agriculture, and D. F. Hyde, Nebraska Soil Survey. Pp. 1375–1422, fig. 1, map. Series 1923, Number 41. [June] 1929. Price, 15¢.

Soil Survey of Butler County, Nebraska. By A. W. Goke, of the U. S. Department of Agriculture, and G. E. Bates, Nebraska Soil Survey. Pp. 36, fig. 1, map. Series 1924, Number 20. [June] 1929. Price, 20¢.

Soil survey of Garden County, Nebraska. By Louis A. Wolfanger, in charge, and A. W. Goke, U. S. Department of Agriculture, and H. E. Weakley and E. H. Strieter, Nebraska Soil Survey. Pp. 1–55, fig. 1, map. (From F. O. Soils, Number 17, Series 1924.) Price, 30¢.

Soil survey of Lake County, Ohio. By Arthur E. Taylor. Pp. 54, fig. 1, map. Series 1925, Number 3. [April] 1929. Price, 25¢.

Soil survey of Lamar County, Georgia. By S. O. Perkins, F. A. Hayes, A. M. O'Neal, jr., and C. E. Deardorff. Pp. 21, fig. 1, map. Series 1925, Number 1. 1928. Price, 15¢.

Soil survey of Olmsted County, Minnesota. By J. Ambrose Elwell, G. B. Shivery, B. H. Hendrickson, Mark Baldwin, and A. T. Sweet. Pp. 959–1012, fig. 1, map. (From Soils F. O., 1923.) 1928. Price, 25¢.

Soil survey of Platte County, Nebraska. By L. S. Paine (in charge) and F. A. Hayes, United States Department of Agriculture; and G. E. Bates, Nebraska Soil Survey. Pp. 1423–1469, fig. 1, maps. (From F. O. Soils, Number 42. Series 1923.) Price, 35¢.

OTHER PUBLICATIONS

Acquisition of land by purchase, gift, or lease under the migratory-bird conservation act of February 18, 1929. Pp. 6. May, 1929. (Biological Survey Bureau. Form Bi-1018). Price, 5¢.

This pamphlet gives general information regarding the act, lands to be acquired, character of lands desired, reservations, gifts, leases, etc., with full text of the law.

Report of the Hawaii Agricultural Experiment Station, 1928. Pp. 29, figs. 13. June, 1929. Price, 10¢.

An account of the work done at the station during 1928, with reports of the horticultural division, agronomy division, chemistry division, etc.

PERIODICALS

AGRICULTURAL SITUATION

This 24-page publication issued monthly by the Bureau of Agricultural Economics contains a brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to department employees, State college workers, cooperators, libraries, and the press. The subscription price is 25¢ a year, domestic; 40¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 13, No. 7: Pp. 24. July 1, 1929.

CLIMATOLOGICAL DATA

These 42 sections, issued monthly, contain weather statistics for 42 separate sections, each corresponding, as a rule, to a State. An annual summary is also issued. The subscription price is 50¢ a year for monthly information in regard to 1 section; 35¢ a month for data regarding all 42 sections, or $4 a year, including the annual summary; 50¢ for the annual summary of the data for the 42 sections. Subscriptions should be made payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 16, No. 4. April.

CLIP SHEET

The Clip Sheet is made up of short interesting stories concerning the department and the application of new ideas and discoveries in the field of agriculture. From 8 to 10 stories, varying from fillers of a few lines to articles of 200 to 300 words are included in each weekly issue. It is distributed free to newspapers and other interested publications and to writers. There is no subscription list.

No. 575. July 7, 1929.
No. 576. July 14, 1929.
No. 577. July 21, 1929.
No. 578. July 28, 1929.

CROPS AND MARKETS

Statistics concerning crops and livestock estimates and market information are contained in this monthly publication. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand both foreign and domestic. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is restricted to those who collaborate with the department. The subscription price is 60¢ a year, domestic; 85¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 6, No. 6. June, 1929.

DAILY WEATHER MAPS

Edition 1.—These maps contain forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Each map is 16.4 by 22.7 inches. These maps are not issued on Sundays or holidays. Editions issued at Washington, D. C., are 25¢ a month, $2.50 a year. These maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents, Washington, D. C., in advance of issue.

Edition 2.—These maps contain forecasts for the entire United States. Each map is 16.4 by 22.7 inches. The Sunday edition does not contain as much information as the editions for week days. The subscription price is 30¢ a month, $3 a year. Maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents, Washington, D. C., in advance of issue.

Daily weather maps (Maps DD and E, 11 by 16 inches, and Map CM, 8 by 12 inches), showing the weather conditions and forecasts, issued, except Saturdays and holidays, at numerous stations throughout the United States; 20 cents per month, $2.00 per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. Each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement. It is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture and as a work of reference for ascertaining the status of research in these fields. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. The subscription price is 75¢ a volume, domestic; $1.25 a volume, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 59, Index Number. July–December, 1928. Price, 10¢.
Vol. 60, no. 7. May, 1929. Price, 10¢.
Vol. 60, no. 8. June, 1929. Price, 10¢.
Vol. 60, no. 9. June, 1929. Abstract Number. Price, 10¢.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is of primary interest to agricultural scientists and advanced students only. Free distribution is limited to certain libraries and to institutions or departments doing research work. The Superintendent of Documents will receive subscription for this publication; $4 a year, domestic; $5.25 a year foreign. Each article in the Journal is reprinted as a "separate." The number of reprints or separates is limited. They are distributed free to those desiring them as long as the supply lasts.

Vol. 38, No. 11, June 1, 1929, illus. Price, 20¢.

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Electric stimulation of plant growth.—(G–669). G. N. Collins, L. H. Flint, and J. W. McLane.
A criterion of the differentiation of varieties or of experimental areas with respect to their capacity to produce seedling stands of cotton.—(G–672). J. Arthur Harris, George J. Harrison, and Edna K. Lockwood.
Smuts and rusts produced in cereals by hypodermic injection of inoculum.—(G–673). Marion Griffiths Zehner and Harry B. Humphrey.
Aphodius granarius (Coleoptera), an intermediate host for *Hymenolepis carioca* (Cestoda).—(A–129). Myrna F. Jones.
The effect of the digestive processes of animals on the viability of corn and sorghum smut spores.—(Kans.–56). C. H. Ficke and L. E. Melchers.
Natural crossing between oat plants of hybrid origin.—(W. Va.–5). R. J. Garber and M. M. Hoover.

Vol. 38, No. 12, June 15, 1929, illus. Price, 20¢.

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Pathological symptoms in legumes caused by the potato leaf hopper. (G–671). John Monteith, jr., and E. A. Hollowell.
Fruit-bud development in the tung-oil tree. (Fla.–3). Charles E. Abbott.
Effect of lime materials on the outgo of sulphur from Hagerstown silt loam soil. (Va. (Blacksburg)–7). W. B. Ellett and H. H. Hill.

Vol. 39, No. 1, July 1, 1929, illus. Price, 20¢.

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Development of flower and seed in some varieties of sugar cane.—(G–648) Ernst Artschwager, E. W. Brandes, and Ruth Colvin Starrett.
Sulphur-spray residues and the swelling of tin cans packed with peaches.—(G–677). C. W. Culpepper and H. H. Moon.
Studies on *Sclerotium rolfsii*, with special reference to the metabolic interchange between soil inhabitants.—(Ark.–14.) H. R. Rosen and Luther Shaw.
The rate of spread of potato virus diseases in western Nebraska.—(Nebr.–8). R. W. Goss.
The respiration factor in the deterioration of fresh vegetables at room temperature.—(Okla.–13). Marjorie P. Benoy.

Vol. 39, No. 2, July 15, 1929, illus. Price, 20¢.

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A physiological study of rooting and callusing in apple and willow.—(G–670). Charles F. Swingle
Occurrence of the zonate-eyespot fungus *Helminthosporium giganteum* on some additional grasses.—(G–684). Charles Dreschsler.
Modification of western yellow pine root systems by fertilizing the soil at different depths in the nursery.—(F–45). W. G. Wahlenberg.
The use of dressed-beef appraisals in measuring the market desirability of beef cattle.—(Tex.–7) Jay L. Lush, W. H. Black, and A. T. Semple.

MONTHLY WEATHER REVIEW

This publication contains (1) meteorological contributions and bibliography, (2) an interpretative summary and charts of the weather of the month in the United States, and on adjacent oceans, and (3) climatological tables dealing with the weather of the month. The contributions are principally as follows: (*a*) Results of observational or research work in meteorology carried on in the United States or other parts of the world; (*b*) abstracts or reviews of important meteorological papers and books; and (*c*) notes. The subscription price is $1.50 a year, domestic; $2.25 a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 57, No. 3, March, 1929. Pp. 85–126, illus. Price, 15¢.

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Weather abnormalities in the United States.—A. J. Henry
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Tornadoes in Kansas.—S. D. Flora.
Angstrom on recording solar radiation; a study of the radiation climate of the surroundings of Stockholm.—H. H. Kimball.
C. E. P. Brooks and W. Quennel on the influence of Arctic ice on the subsequent distribution of pressure over the eastern North Atlantic and western Europe.—A. J. Henry.

Vol. 57, No. 4, April, 1929. Pp. 127–178, illus. Price 15¢.

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Low relative humidity in Oregon.—Chas. I. Dague.
Cloud height according to direction of motion.—A. F. Piippo.
Tornadoes in Arkansas, April, 1929.—H. S. Cole.
Tornadoes in Wisconsin, April, 1929.—W. P. Stewart.
Hail on April 21, 1929.—J. L. Kendall, W. E. Barron, and R. A. Dyke.
Squalls with rising barometer at Roseburg, Oreg.—E. H. Fletcher.

THE OFFICIAL RECORD

This 8-page weekly publication contains official orders and miscellaneous information concerning the activities of the department, and such other matter as should be brought to the attention of employees and others who have to do with the department's work. The free list is confined to departmental employees, official cooperators, and the press. It may be purchased from the Superintendent of Documents, Government Printing Office, for 50¢ a year.

Vol. 8, No. 27, July 4, 1929.
Vol. 8, No. 28, July 11, 1929.
Vol. 8, No. 29, July 18, 1929.
Vol. 8, No. 30, July 25, 1929.

PUBLIC ROADS

The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside the bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. The subscription price is $1 a year, domestic; $1.50 a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 10, No. 4. Pp. 65–84. June, 1929. Price, 10c.

CONTENTS

Mechanics of progressive cracking in concrete pavements. By H. M. Westergaard.
Effect of type and gradation of coarse aggregate upon the strength of concrete. By W. F. Kellerman.

WEATHER OUTLOOK

A weekly outlook for the various zones, prepared at and distributed from forecast centers of the Weather Bureau, as follows: Washington, D. C. (district 1, North and Middle Atlantic States; district 2, South Atlantic and East Gulf States; district 3, Ohio Valley and Tennessee); New Orleans, La. (district 4, Southern Plains and West Gulf States); Chicago, Ill. (district 5, region of Great Lakes; district 6, upper Mississippi and lower Missouri Valleys; district 7, northern and central Great Plains); Denver, Colo. (district 8, northern Rocky Mountain region; district 9, southern Rocky Mountain and Plateau regions); San Francisco, Calif. (district 10, far Western States). Limited edition. Not for general distribution.

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For the period July 22–27. July 20, 1929.
For the period July 29–Aug. 3. July 27, 1929.

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For the week ended July 2. No. 27. July 3, 1929.
For the week ended July 9. No. 28. July 10, 1929.
For the week ended July 16. No. 29. July 17, 1929.
For the week ended July 23. No. 30. July 24, 1929.

U. S. GOVERNMENT PRINTING OFFICE: 1929